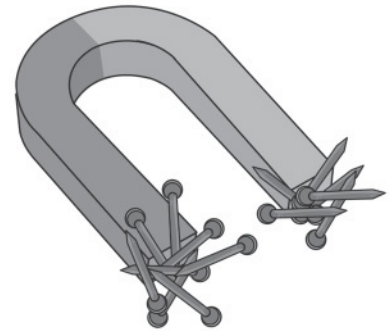


Magnetic Attraction

Did You Know? Magnets attract only certain metals, such as nickel, iron, and cobalt. Most metals, such as copper, silver, gold, and aluminum, are not attracted to magnets. Magnets do not attract non-metallic materials, such as glass or wood. Magnets vary in strength: some can lift a car off the ground, while others can only hold a piece of paper to a refrigerator.



Bai works in a recycling center that uses magnets to sort metal items. The table shows the maximum mass of an object that can be lifted by each magnet.

Magnet Mass Limits

Magnet	A	B	C
Mass Limit	1,000 g	10 kg	1,000 kg

- 1 Bai's supervisor asks her to move some toaster ovens. Bai thinks Magnet B will be the best magnet to pick up the toaster ovens. Do you agree? Explain.

Yes, Magnet B has a mass limit of 10 kilograms, which is about the mass of a toaster oven.

- 2 Bai needs to pick up some metallic flakes around the computers. Which magnet should she use? Explain.

She should use Magnet A so that it picks up only the metallic flakes.

- 3 **Extension** The recycling center wants to add another magnet to lift objects such as a refrigerator or a car. What would be an appropriate mass limit for the new magnet?

Sample answer: 2,000 kilograms; A stronger magnet should lift an object with a mass greater than 1,000 kilograms.